

**ABSTRACT**

Disclosed is an electroluminescent device comprising a light-emitting layer containing a light emitting material that contains an organometallic  
5 complex comprising a metal selected from the group consisting of Pt, Pd and Ir,  
and a tridentate ( $N^{\wedge}C^{\wedge}N$ ) ligand, wherein the tridentate ( $N^{\wedge}C^{\wedge}N$ ) ligand represents  
a ligand that coordinates to the metal through a nitrogen donor bond, a carbon-  
metal bond, and a nitrogen donor bond, in that order, wherein at least one of the  
nitrogen donors is part of an aromatic ring or an imine group. The invention also  
10 includes a display or room lighting device employing the device of the invention  
and a process of emitting light from the device of the invention.

The device of the invention provides good luminance efficiency.